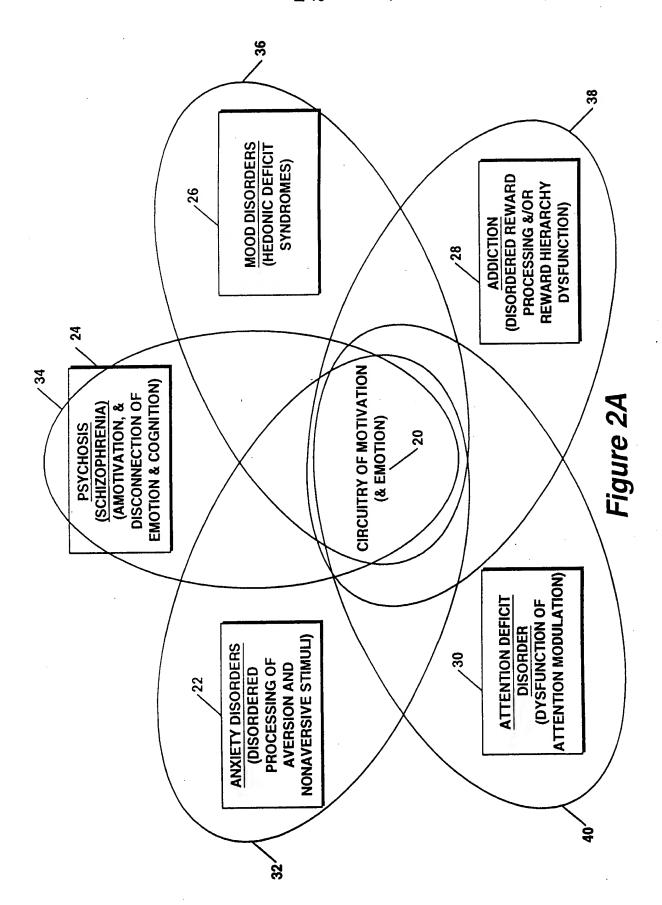
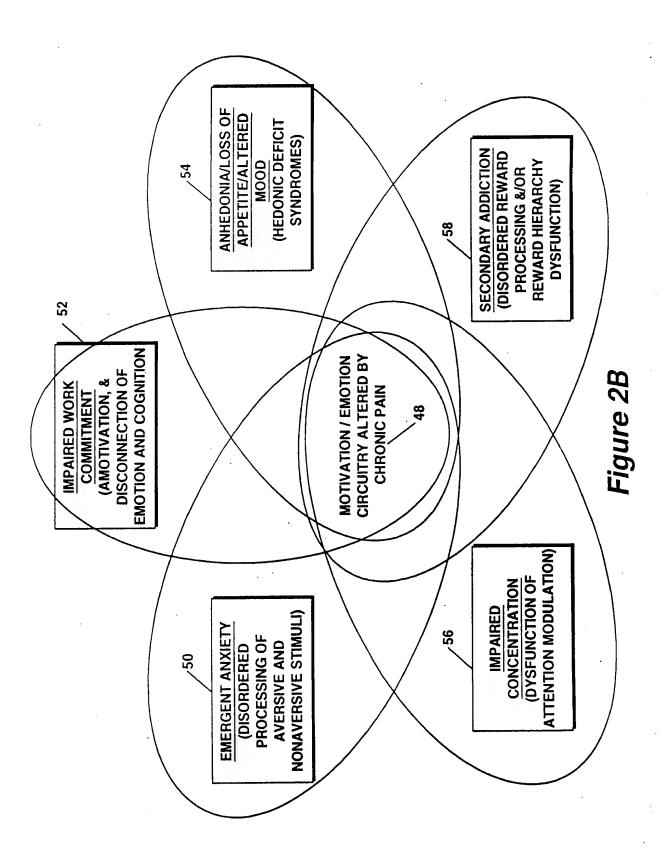


Figure 1

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TREATMENT AND OTHER RELATED TECHNIQUE
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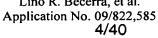


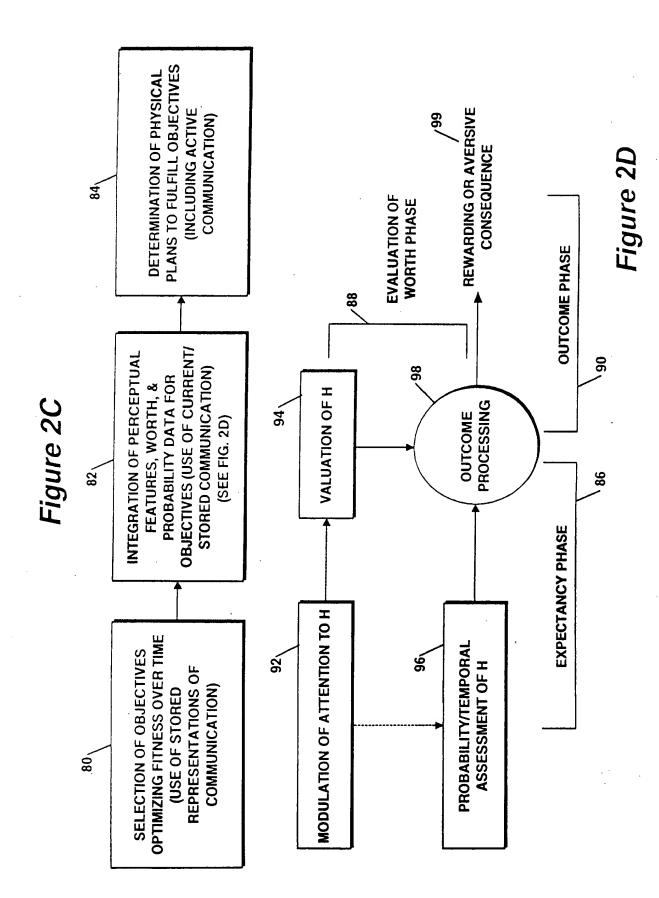


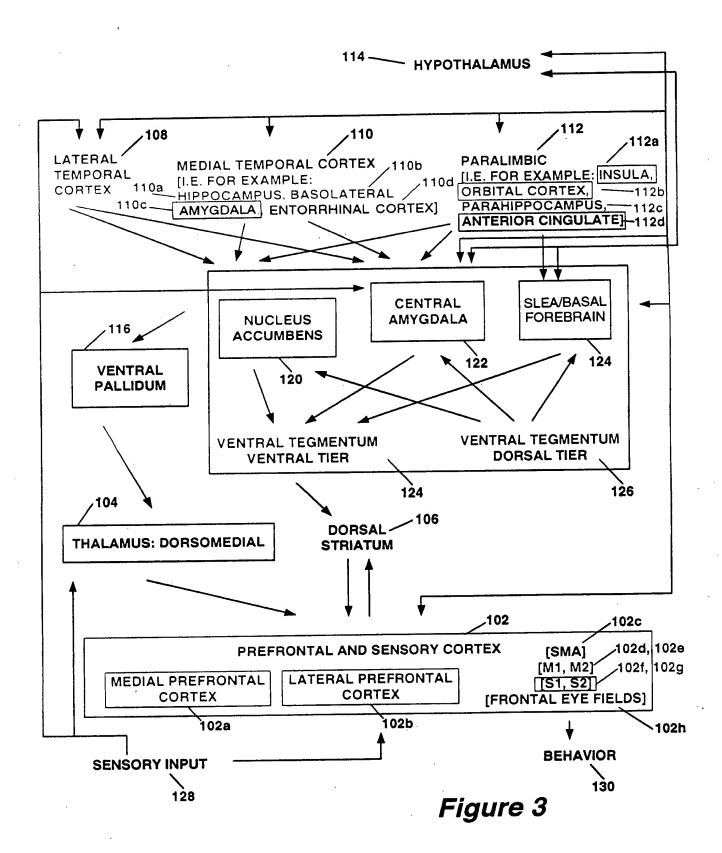
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Lino R. Becerra, et al.

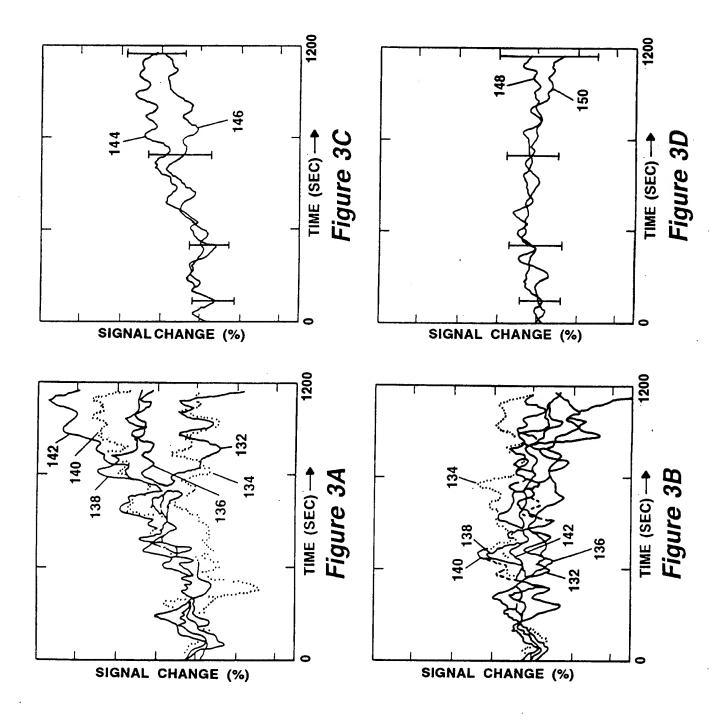


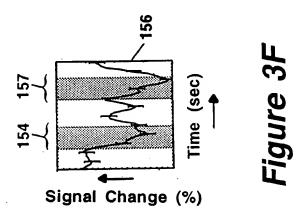


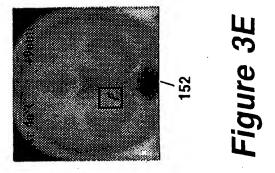


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METHOD AND APPARATUS FOR OBJECTIVELY MEASURING PAIN, PAIN TREATMENT AND OTHER RELATED TECHNIQUE Lino R. Becerra, et al. Application No. 09/822,585 8/40

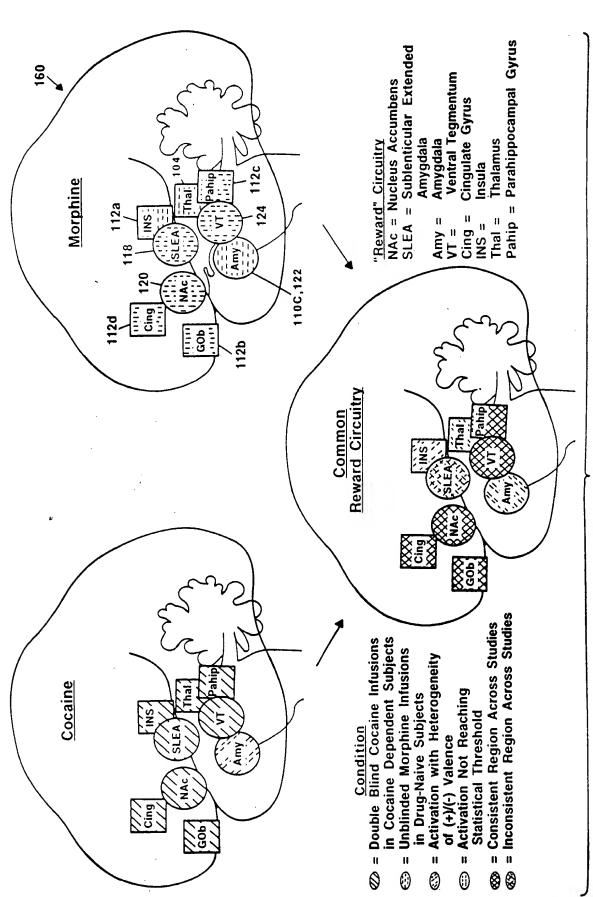
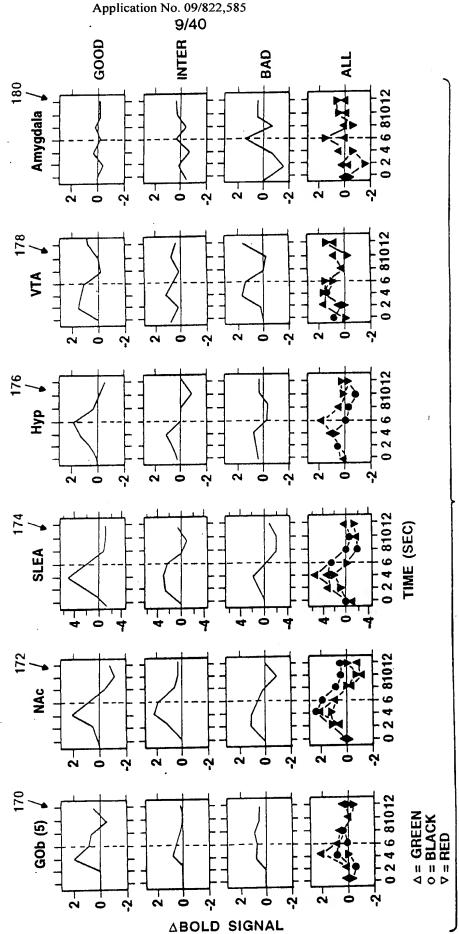


Figure 3G

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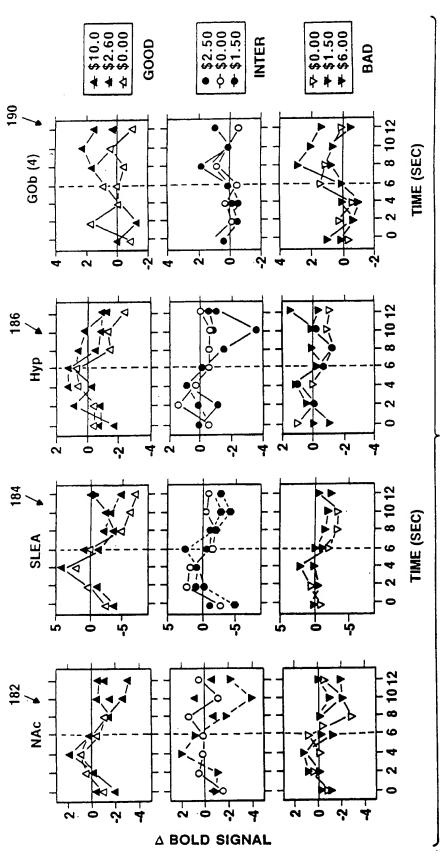
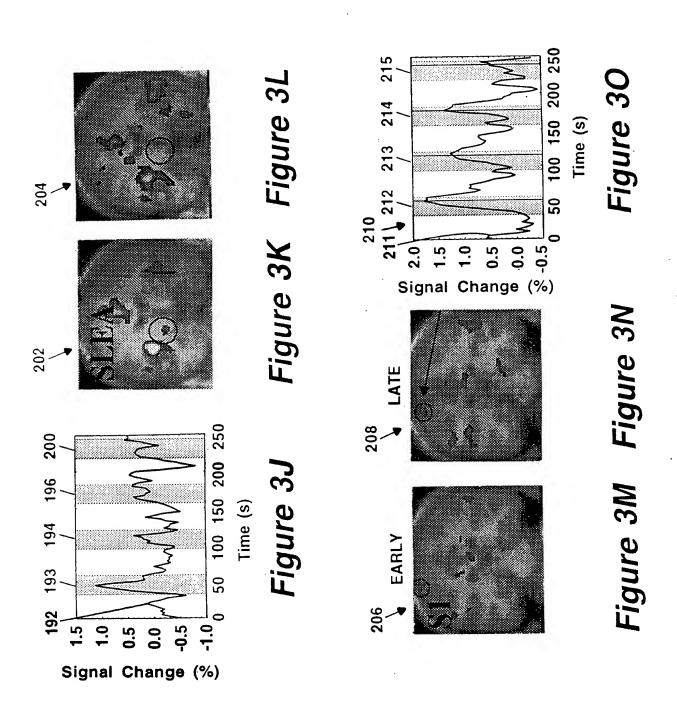


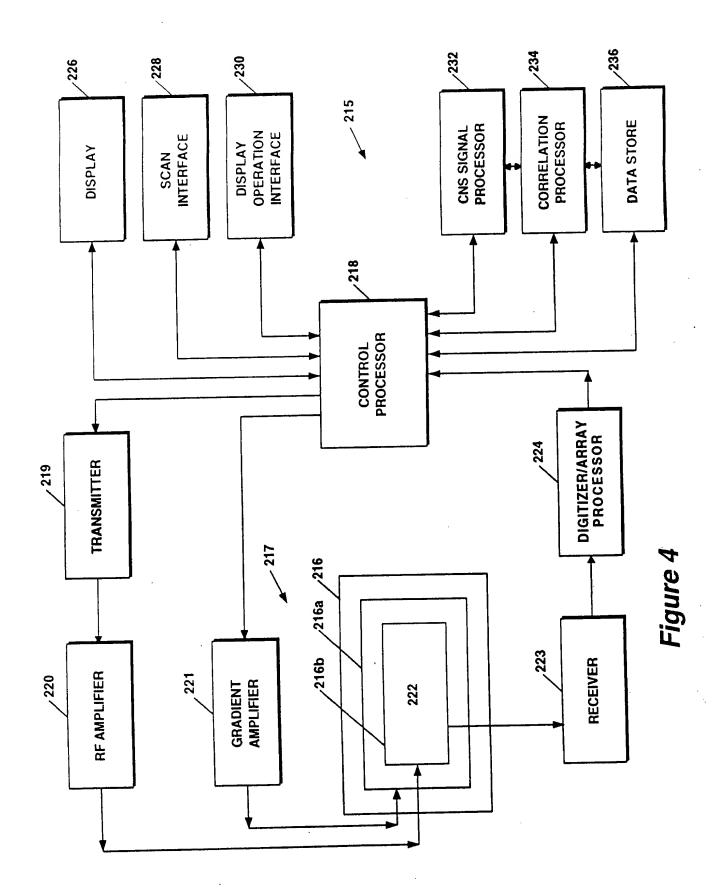
Figure 31

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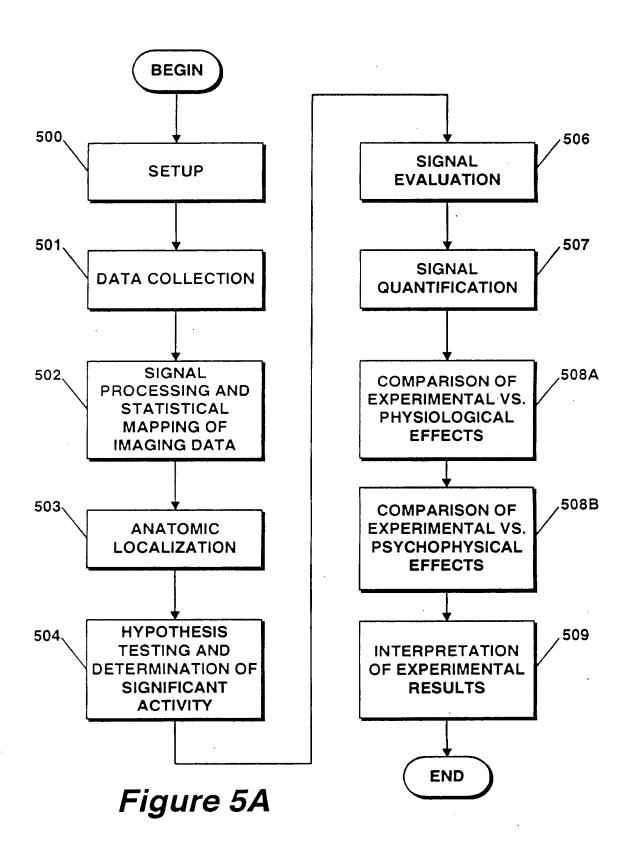




METHOD AND PARATUS FOR OBJECTIVELY MEASURING PAIN, PATTREATMENT AND OTHER RELATED TECHNIQUE Lino R. Becerra, et al.

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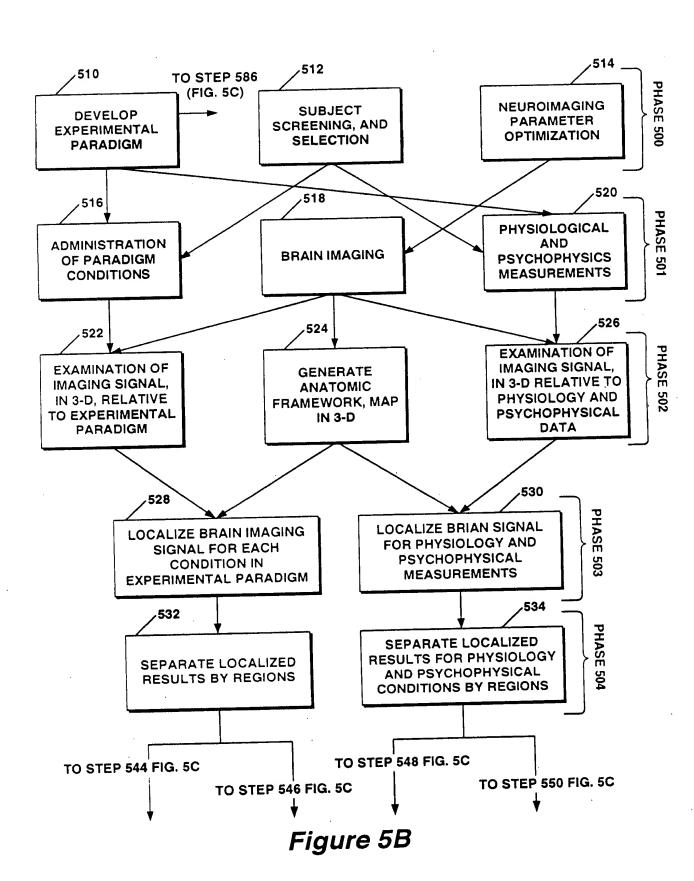


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METHOD AND APPARATUS FOR OBJECTIVELY MEASURING PAIN, PARTITION TREATMENT AND OTHER RELATED TECHNIQUIL Lino R. Becerra, et al.

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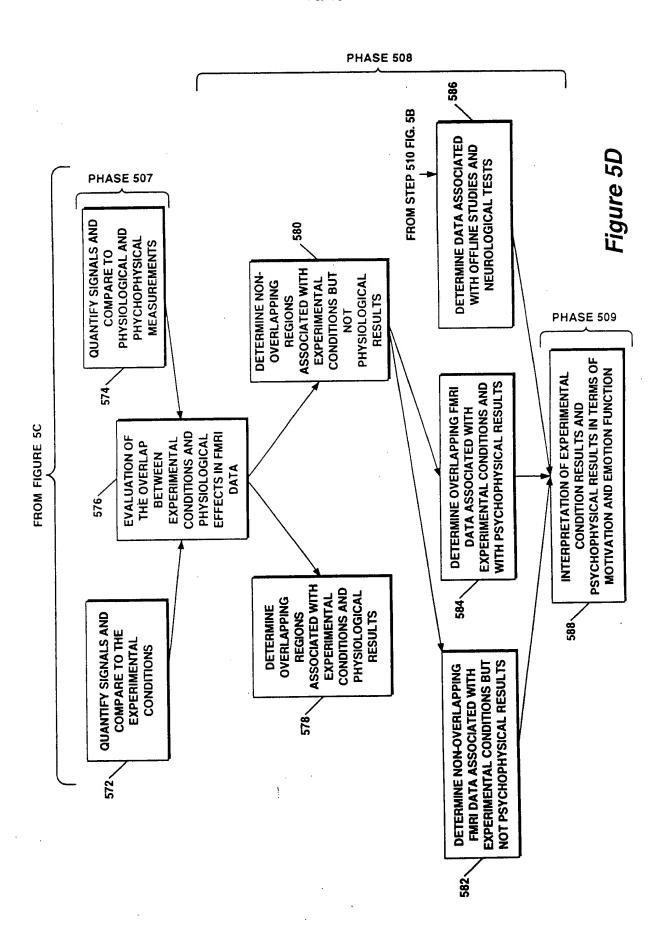
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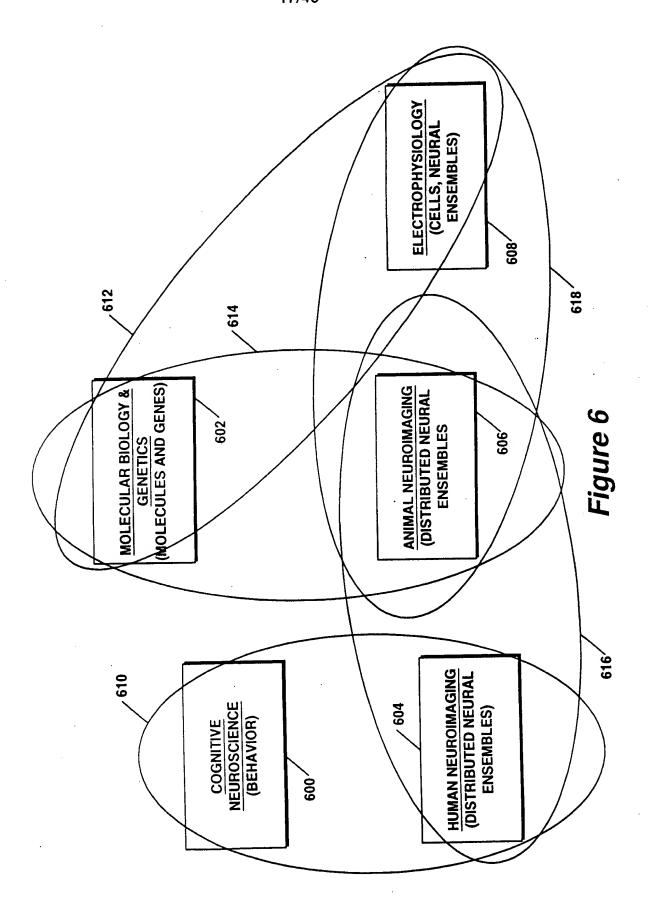


METHOD AN APPARATUS FOR OBJECTIVELY MEASURING PAIN, TREATMENT AND OTHER RELATED TECHNIQUE Lino R. Becerra, et al. Application No. 09/822,585 15/40 PHASE 504 **ACTIVITY IN** DETERMINE SUBTHRES-TARGETED REGIONS HOLD NON-FROM STEP 534 FIG. 5B 566 OTHER REGIONS IN HOC STATISTICAL PERFORM POST-**TESTING IN ALL** THRESHOLD THE BRAIN PHASE 506 SIGNIFICANT **ACTIVITY IN** DETERMINE TARGETED REGIONS FEATURES FOR VALENCE, NON-**EVALUATE FIMRI SIGNAL** INTENSITY, WAVEFORM Figure 5C AND ADAPTION 550 564 **ACTIVITY IN** DETERMINE SUBTHRES-**TARGETED** REGIONS **HOLD** FROM STEP 534 FIG. 5B 562 **TESTING BASED ON** MOTIVATION AND THRESHOLD **STEP 510 IN** REGIONS IN STATISTICAL TARGETED CIRCUITRY **EMOTION** PERFORM SIGNIFICANT **ACTIVITY IN** DETERMINE TARGETED REGIONS TO FIGURE 5D 548 286 **ACTIVITY IN** DETERMINE SUBTHRES TARGETED REGIONS NON NO **30**2 558 FROM STEP 532 FIG. 5B OTHER REGIONS IN HOC STATISTICAL PERFORM POST-**TESTING IN ALL** THRESHOLD THE BRAIN FEATURES FOR VALENCE, **EVALUATE FMRI SIGNAL** INTENSITY, WAVEFORM AND ADAPTION SIGNIFICANT **ACTIVITY IN** TARGETED DETERMINE REGIONS Ż NON 546 556 **ACTIVITY IN** DETERMINE SUBTHRES-TARGETED REGIONS HOLD FROM STEP 532 FIG. 5B 554 **TESTING BASED ON MOTIVATION AND** THRESHOLD **STEP 510 IN** REGIONS IN STATISTICAL TARGETED CIRCUITRY PERFORM **EMOTION** SIGNIFICANT **ACTIVITY IN** DETERMINE TARGETED REGIONS **54** 552

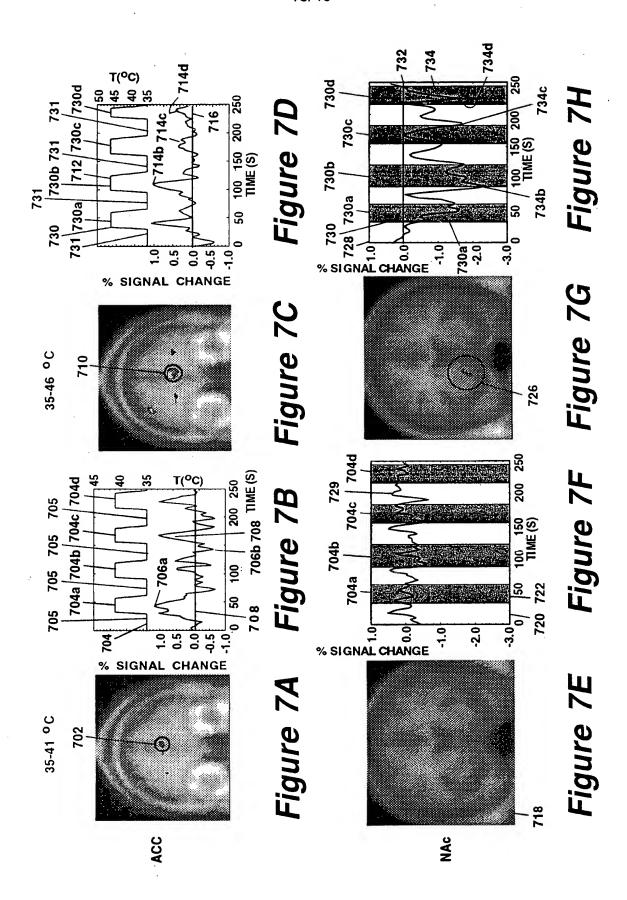
METHOD AND APPARATUS FOR OBJECTIVELY MEASURING PAIN, PARATEMENT AND OTHER RELATED TECHNIQU Lino R. Becerra, et al.

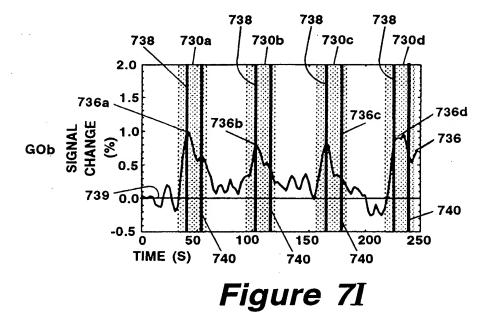
Application No. 09/822,585

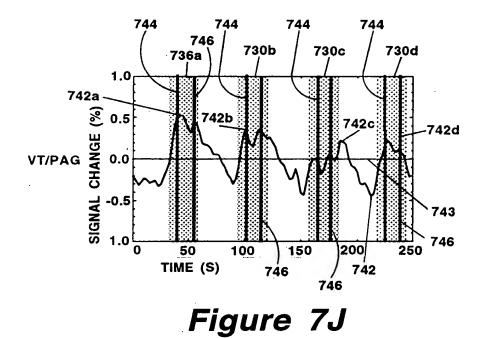


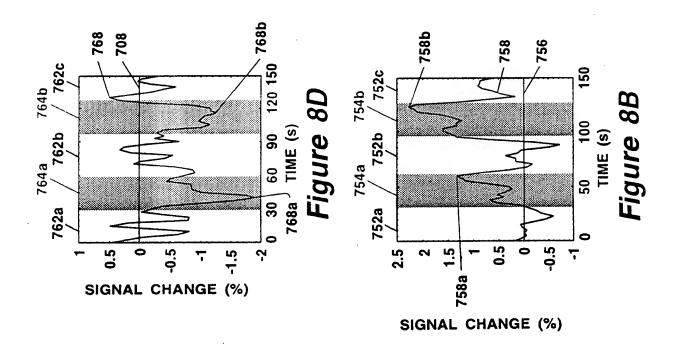


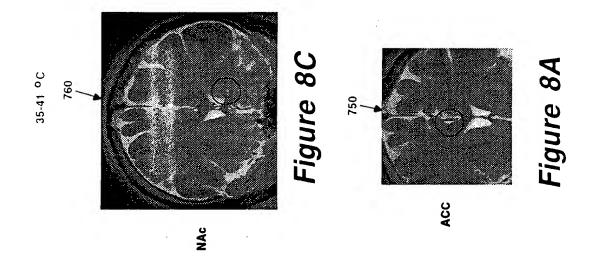
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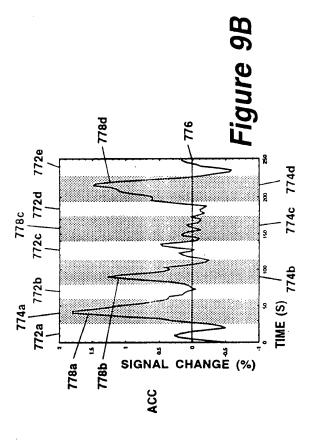




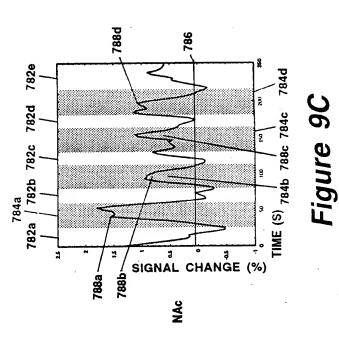








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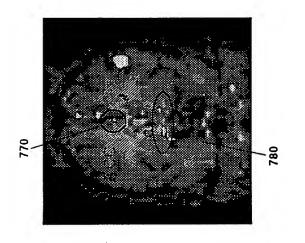
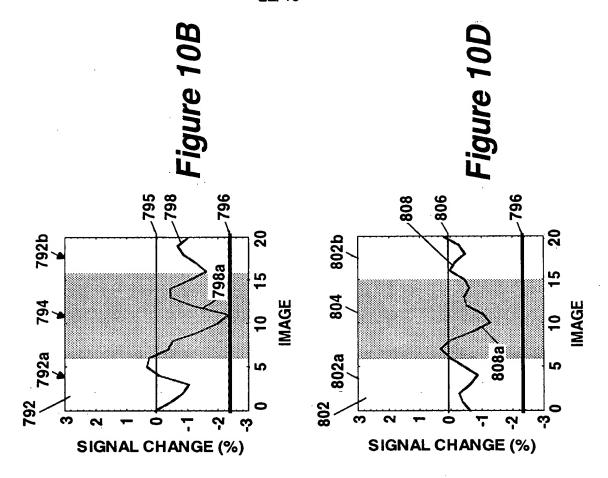
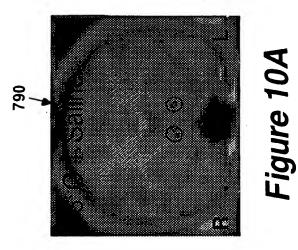


Figure 9A





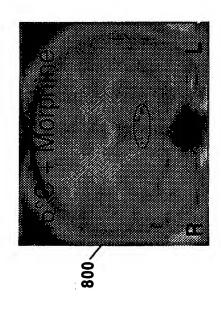
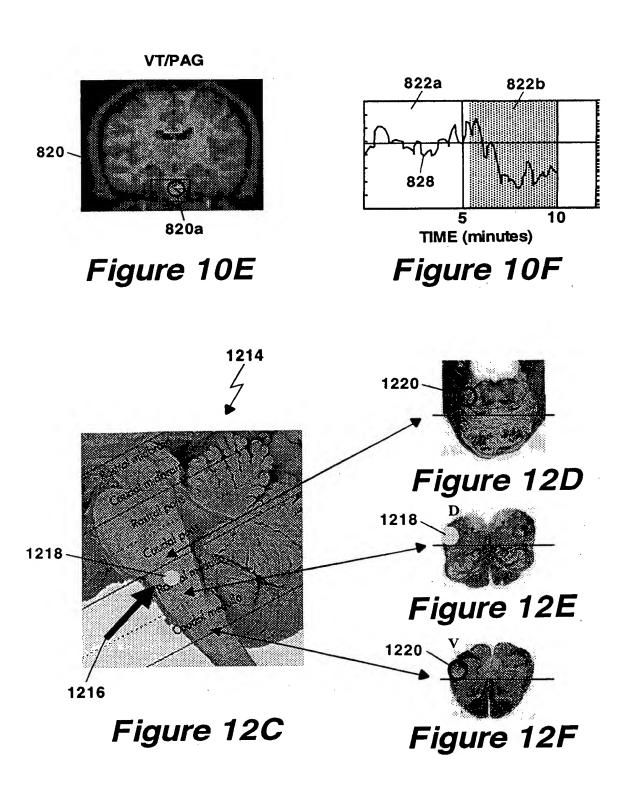


Figure 10C

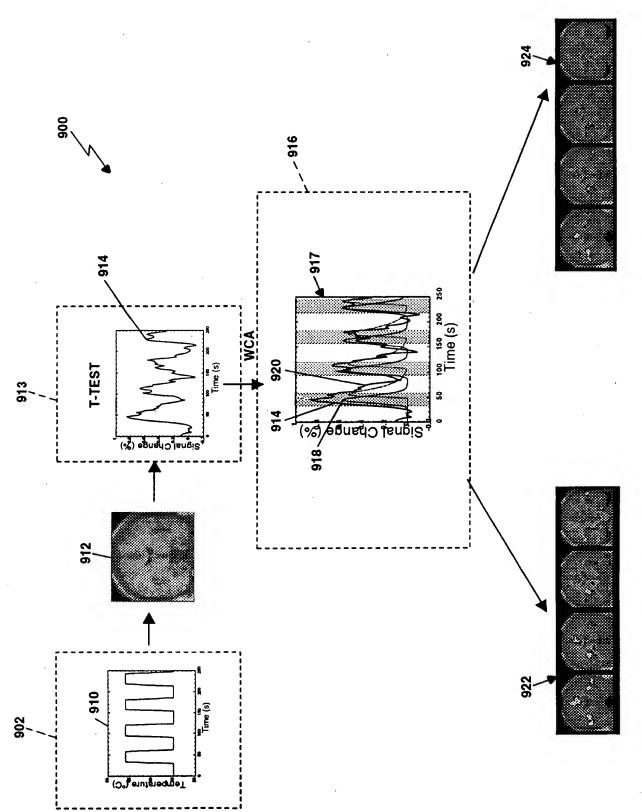
METHOD AND APPARATUS FOR OBJECTIVELY MEASURING PAIN, PAIN TREATMENT AND OTHER RELATED TECHNIQU Lino R. Becerra, et al.

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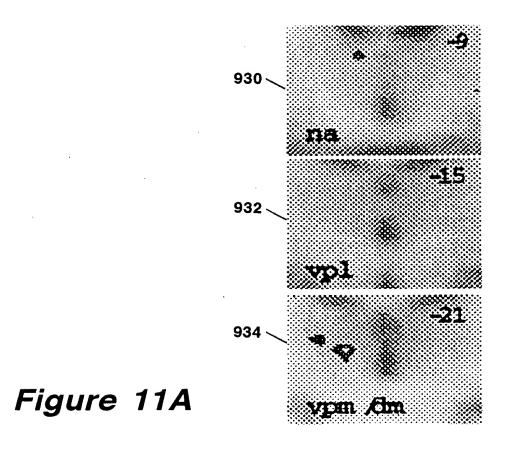


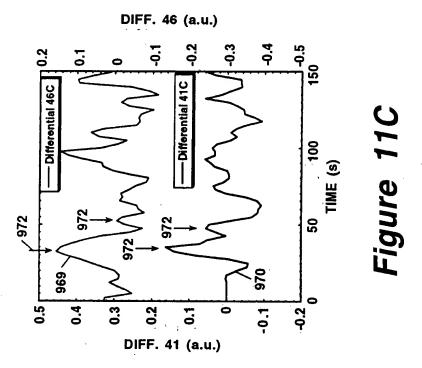
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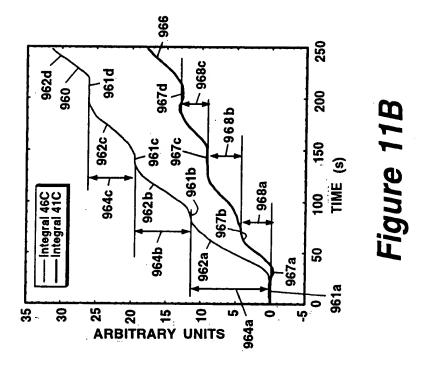
Application No. 09/822,585

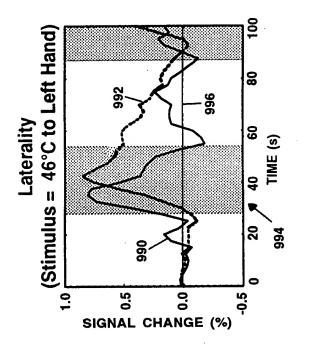


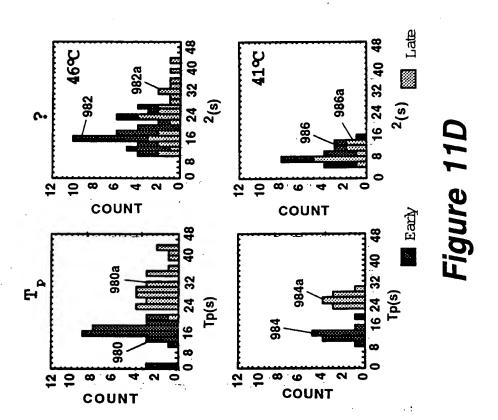
METHOD AND APPARATUS FOR OBJECTIVELY MEASURING PAIN, PARAMETER AND OTHER RELATED TECHNIQUE Lino R. Becerra, et al. Application No. 09/822,585











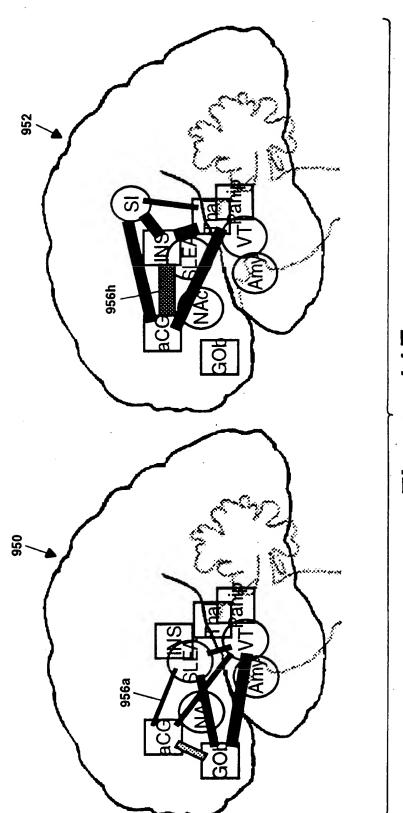


Figure 11F

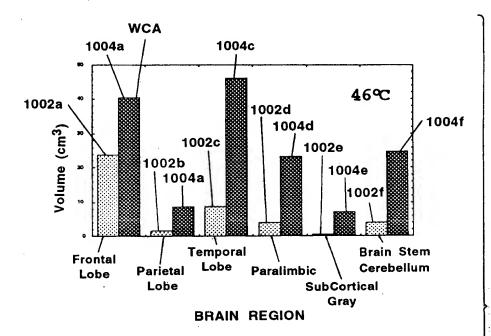
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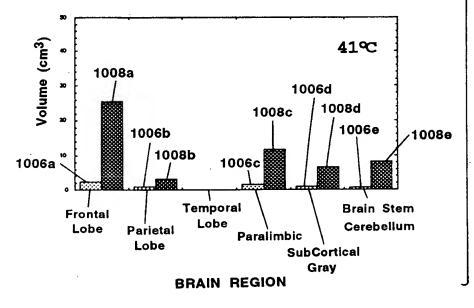


Figure 11G

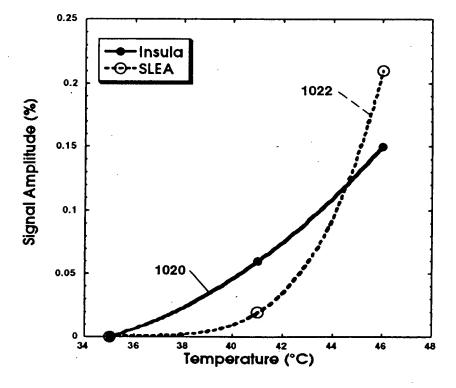


Figure 11H

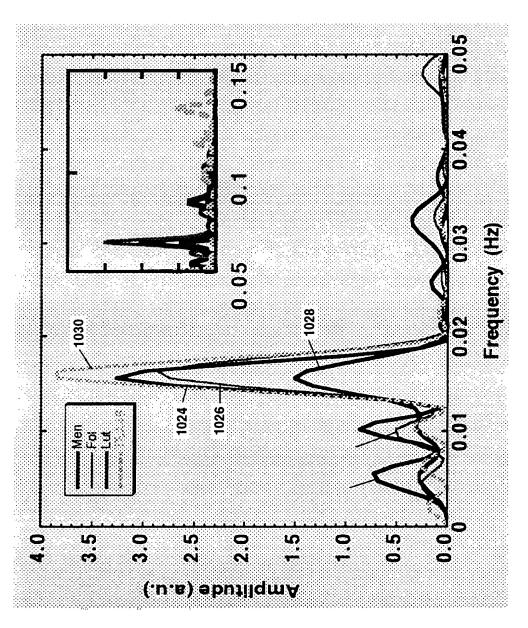
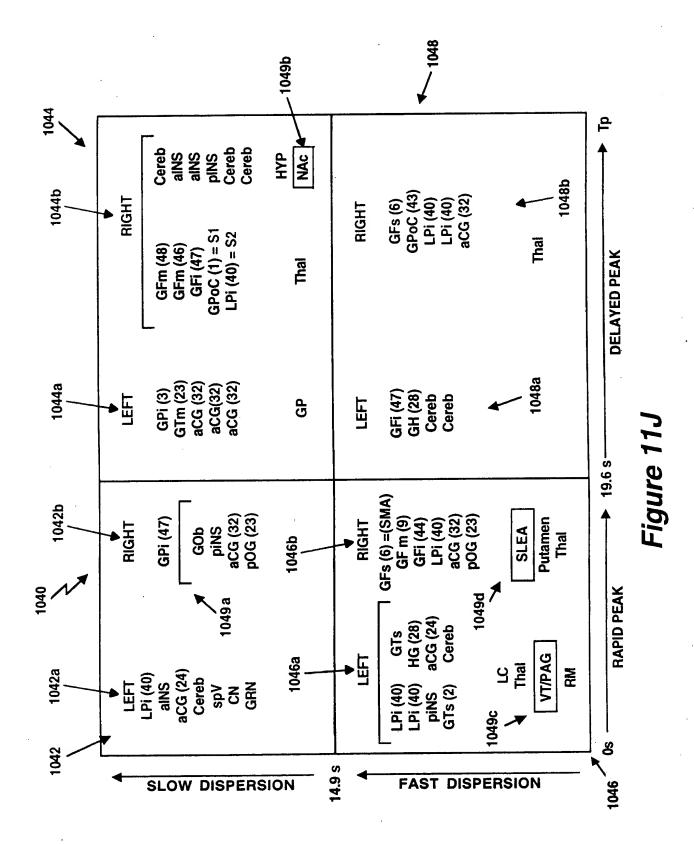


Figure 11I



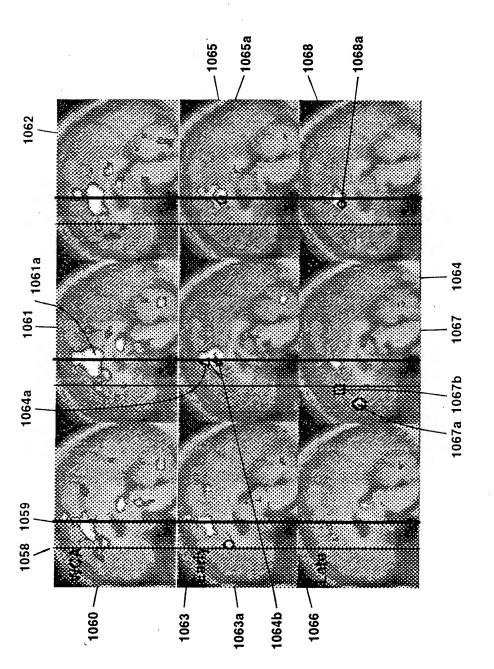


Figure 11K

METHOD AND APPARATUS FOR OBJECTIVELY MEASURING PAIN, PATRICULAR TREATMENT AND OTHER RELATED TECHNIQUIL Lino R. Becerra, et al. Application No. 09/822,585 34/40

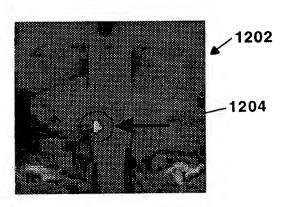


Figure 12

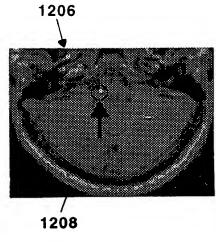


Figure 12A

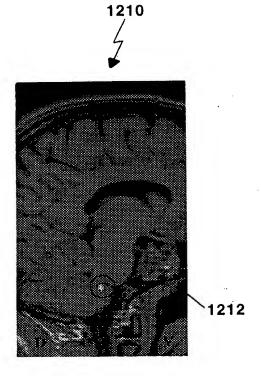


Figure 12B

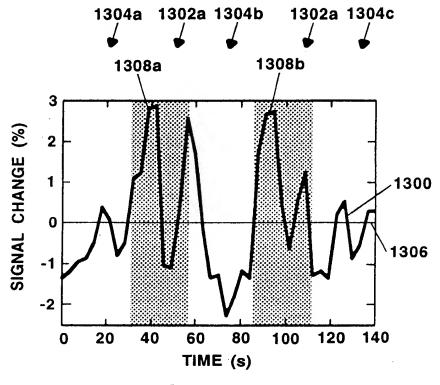


Figure 13

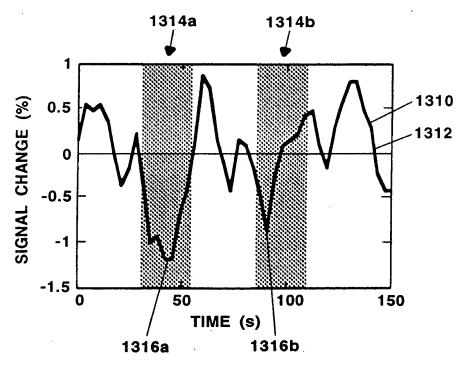
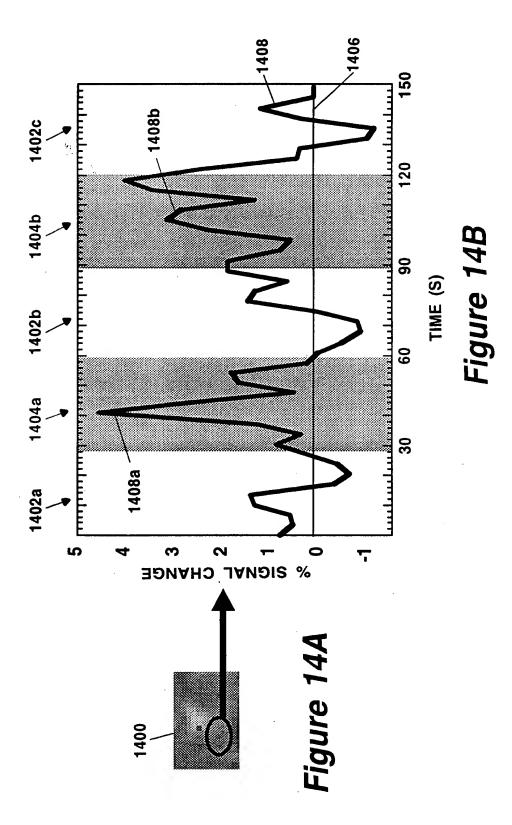
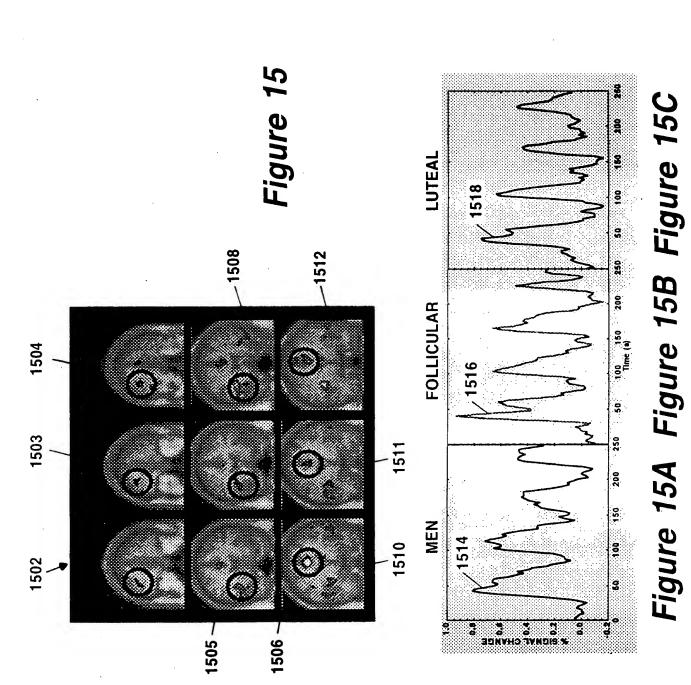


Figure 13A

METHOD AND APPARATUS FOR OBJECTIVELY MEASURING PAIN, PARTITION OF TREATMENT AND OTHER RELATED TECHNIQUE Lino R. Becerra, et al.

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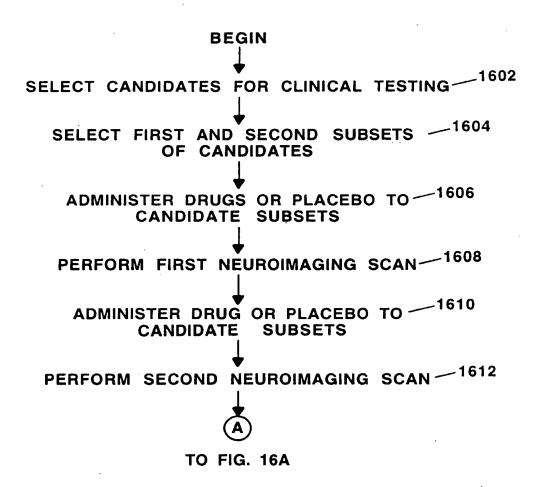


Figure 16

FROM FIG. 16

(A)

MEASURE PHYSIOLOGICAL AND PSYCHOPHYSICAL 1614
RESPONSES OF FIRST AND SECOND
CANDIDATE SUBSETS

MEASURE PHYSIOLGICAL AND PSYCHOPHYSICAL 1616
RESPONSES OF FIRST AND SECOND
CANDIDATE SUBSETS

CORRELATE NEUROIMAGING DATA WITH 1618
PSYCHOPHYSICAL AND PHYSIOLOGICAL
RESPONSES

END

Figure 16A

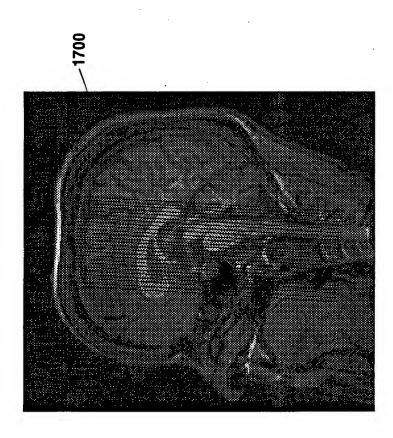


Figure 17